

## PATENT COOPERATION TREATY

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## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference BP111266/OPS	<b>FOR FURTHER ACTION</b> See Form PCT/IPEA/416	
International application No. PCT/FI2005/000162	International filing date (day/month/year) 21-03-2005	Priority date (day/month/year) 22-03-2004
International Patent Classification (IPC) or national classification and IPC See Supplemental Box		
Applicant Stora Enso Oyj et al		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
- a. ☒ (sent to the applicant and to the International Bureau) a total of 1 sheets, as follows:
- ☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
- ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
- b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) \_\_\_\_\_, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

- |                                     |              |   |
|-------------------------------------|--------------|---|
| <input checked="" type="checkbox"/> | Box No. I    | Basis of the report   |
| <input type="checkbox"/>            | Box No. II   | Priority  |
| <input type="checkbox"/>            | Box No. III  | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  |
| <input type="checkbox"/>            | Box No. IV   | Lack of unity of invention  |
| <input checked="" type="checkbox"/> | Box No. V    | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/>            | Box No. VI   | Certain documents cited   |
| <input type="checkbox"/>            | Box No. VII  | Certain defects in the international application  |
| <input type="checkbox"/>            | Box No. VIII | Certain observations on the international application   |

Date of submission of the demand  18-01-2006	Date of completion of this report  18-04-2006
Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. +46 8 667 72 88	Authorized officer  Anna Åhländer/EK Telephone No. +46 8 782 25 00

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Cover sheet

**International patent classification (IPC)**

**B65D 3/06** (2006.01)

**B65D 77/20** (2006.01)

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI2005/000162

## Box No. I Basis of the report

1. With regard to the **language**, this report is based on:



the international application in the language in which it was filed



a translation of the international application into \_\_\_\_\_,  
which is the language of a translation furnished for the purposes of:



international search (Rules 12.3(a) and 23.1(b))



publication of the international application (Rule 12.4(a))



international preliminary examination (Rules 55.2(a) and/or 55.3(a))

2. With regard to the **elements** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:



the international application as originally filed/furnished



the description:

pages 1 - 6 as originally filed/furnished

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_



the claims:

pages 8 as originally filed/furnished

pages\* \_\_\_\_\_ as amended (together with any statement) under Article 19

pages\* 7 received by this Authority on 18-01-2006

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_



the drawings:

pages 1 - 3 as originally filed/furnished

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_



a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:



the description, pages \_\_\_\_\_



the claims, Nos. \_\_\_\_\_



the drawings, sheets/figs \_\_\_\_\_



the sequence listing (*specify*): \_\_\_\_\_



any table(s) related to the sequence listing (*specify*): \_\_\_\_\_

4.



This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).



the description, pages \_\_\_\_\_



the claims, Nos. \_\_\_\_\_



the drawings, sheets/figs \_\_\_\_\_



the sequence listing (*specify*): \_\_\_\_\_



any table(s) related to the sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI2005/000162

**Box No. V** Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims	<u>1-13</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-13</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-13</u>	YES
	Claims		NO

## 2. Citations and explanations (Rule 70.7)

## Documents cited in the International Search Report:

D1: GB 2236099 A  
D2: US 5236120 A  
D3: GB 719404 A  
D4: GB 1126292 A  
D5: WO 03068613 A1

The cited documents represent the general state of the art.  
The invention defined in claims 1-13 is not disclosed by any of these documents.  
The cited prior art does not give any indication that would lead a person skilled in the art to the claimed cup package. Therefore, the claimed invention is not obvious to a person skilled in the art.  
Accordingly, the invention defined in claims 1-13 is novel and is considered to involve an inventive step. The invention is industrially applicable.

## Claims

1. A cup package made of a fibre-based material, comprising a cup (1) containing a packaged product (2) and a lid (6) closing the mouth of the cup, both the cup and the lid being **characterised** in that the cup (1) comprises a mantle (3) bent downward at the mouth (4) of the cup to form a collar (5) diverging from the mantle, and in that the lid (6) has a downwardly oriented rim (8), at which the lid is fixed to the collar by heat sealing.
2. A package as defined in claim 1, **characterised** in that the mantle (3) of the cup (1) is enlarged conically upwardly.
3. A package as defined in claim 1 or 2, **characterised** in that the cup collar (5) and the lid rim (8) are enlarged conically downwardly.
4. A package as defined in any of the preceding claims, **characterised** in that the cup (1) is made from polymer-coated board (15) with at least the inner surface of the cup mantle (3) and the outer surface of the collar (5) being polymer coated.
5. A package as defined in any of the preceding claims, **characterised** in that the lid (6) has been formed of a polymer-coated board (15) with at least the inner surface of the lid being polymer-coated.
6. A package as defined in claims 4 and 5, **characterised** in that the polymer coating of the board (15) comprises an inner oxygen barrier layer (16) and an outer heat-sealing layer (17).
7. A package as defined in any of the preceding claims, **characterised** in that the lid (6) comprises at its centre a recess (14) defined by a conical surface (13) and nested with the cup (1) so that the friction and/or compression between the cup mantle (3) and the opposite conical surfaces of the lid recess retain the lid in position in the reclosed package.
8. A package as defined in any of the preceding claims, **characterised** in that a recess (14) has been formed at the centre of the lid (6) for receiving the bottom of the package on top as the packages are piled.